

Shalom EO
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High Performance-price Products

Customized Manufacturing

Expert Service

Hangzhou Shalom Electro-optics Technology Co., Ltd.

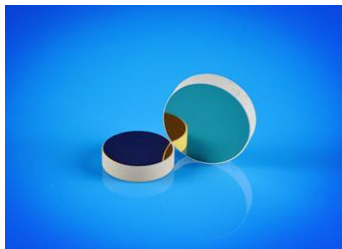
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Laser Mirrors

The mirrors is one of the critical components in the laser systems. Various type of mirrors are used in the laser systems, the high reflecting or HR rear mirrors and the partial reflecting or PR output coupling mirrors are used in the laser cavities. The AOI 45 degree HR mirrors and the multi-wavelength HR mirrors (MWHR mirrors) are often used in the light guide systems of the laser machines, and the scanning mirrors is used in the laser scanner components. Hangzhou Shalom EO supplies the common used mirrors in stocks with fast delivery, we also supplies the custom mirrors according to your request.



Substrates Materials:

BK7, UV Fused Silica, CaF₂, MgF₂ or customized material

Typical Specifications:

Specifications		
Material	BK7 UV fused Silica	CaF ₂ , MgF ₂
Surface Quality	10/5 S/D	20/10 S/D
Flatness	Lambda/10 @ 633nm	Lambda/10 @ 633nm
Dimensional tolerance	+0.0 / -0.20 mm	
Thickness Tolerance	+/- 0.20mm	
Centering Tolerance	Less than 3 minutes	
Clear Aperture	>85% of dimension	
Damage Threshold	10J/cm ² , 8nsec pulse; 500MW/cm ² , CW at 1064nm	

Wavelength Range:

355nm~2000nm

Coating Types:

- ◆ HR mirrors and PR mirrors
- ◆ AOI 0° to 45°
- ◆ Single and multi wavelength and Broad band

Applications:

- ◆ Nd:YAG or Nd:YVO4 lasers
- ◆ Diode Lasers
- ◆ Fiber lasers
- ◆ He-Ne laser and gas lasers
- ◆ Ti:Sapphire lasers
- ◆ Other lasers or components

Standard Types in Stocks:

1. Typical HR mirrors with AOI= 0 degree in stocks

λ (nm)	355	532	633、780、808、980	1064	1315	1550
R (%)	>96	99.5	99.8	99.8	99.8	99.8

2. Typical HR mirrors with AOI=45 degree in stocks

λ (nm)	355	488	532	633、780、808、980	1064
R (%)	>96	>98	98	99.5	99.5

3. Typical multi-wavelength HR mirrors (MWHHR) with AOI=45 degree in stocks

λ (nm)	532/1064	532/633/1064	532/650/1064	532/808/1064	532/650/808	650/1064
R (%)	>99	98/80/98	98/70/98	98/70/98	98/90/99	90/99

4. Output Coupling Mirrors of 1064nm in stocks

Transmission T=5、10、15、20、30、50

5. Scanning mirrors of the 1064nm in stocks

6. Mirrors for He-Ne Lasers in stocks

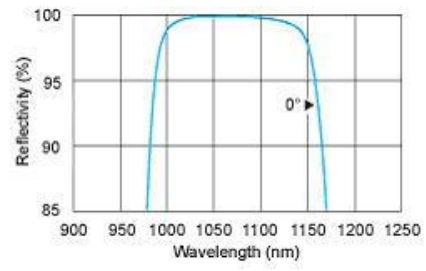
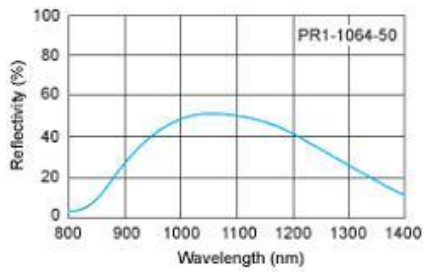
Diameter: 9mm,11mm and 14mm

633nm output coupling mirrors

633nm HR rear mirrors: AOI=0 degree;R>99.8%

AOI= 45 degree; R>99.5%

Example of the coating curve:



High Energy Partially Reflecting (>99.8% @ 1064nm)
Single-wavelength High Reflecting Mirrors (50% @ 1064nm)

Dual-Wavelength High-Reflection Coatings(532/1064nm)

